

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Scott William Davis

Serial No.: 10/064,682

Group Art Unit: 3683

JUN 02 2005

Filed: August 6, 2002

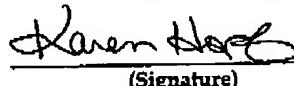
Examiner: Thomas J. Williams

For: INTEGRATED PASSENGER VEHICLE  
TRAILER BRAKE CONTROLLER

Attorney Docket No.: 201-0496 (FGT 1557 PA)

I hereby certify that this correspondence is being sent via facsimile addressed to: Attn: Examiner: Thomas J. Williams, Mail Stop Non-Fee Amendment, Commissioner for Patents, Alexandria, VA 22313-1450 to fax number (703) 872-9306 on:

June 2, 2005  
(Date of Deposit)

  
(Signature)

AMENDMENT UNDER 37 CFR § 1.111

Mail Stop Non-Fee Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This paper is in response to the Office Communication in the above-entitled application mailed May 3, 2005, and allowing one month for response. This response is timely as it is filed within the allowable one month period.

In the Office Communication, the Examiner indicated that claims 23 and 24 are incomplete because the claim on which they depend from has been dismissed by the Board of Appeals. Applicant is therefore presenting claims 23 and 24 in independent form.

The Commissioner is authorized to charge any fees due to Deposit Account No. 06-1510.

Claims 23 and 24:

23. A trailer brake controller for use in a passenger vehicle for controlling a towed trailer comprising:

a control element positioned within the passenger vehicle;

a vehicle speed input providing vehicle speed to said control element;

a vehicle brake pressure input providing vehicle brake pressure to said control element;

a trailer brake output, said trailer brake output controlled by said control element in response to said vehicle speed input and said vehicle brake pressure input; and

a diagnostic input from the towed trailer in communication with said control element, said diagnostic input verifying proper operation of the towed trailer;

wherein said control element includes logic adapted to:

gradually ramp-up said trailer brake output in response to a gradual ramp-up of said brake pressure input; and

apply a step-function to said trailer brake output in response to a sudden increase of said brake pressure input.

24. A trailer brake controller for use in a passenger vehicle for controlling a towed trailer comprising:

a control element positioned within the passenger vehicle;

a vehicle speed input providing vehicle speed to said control element;

a vehicle brake pressure input providing vehicle brake pressure to said control element;

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201-0265 (FGT 1557 PA)

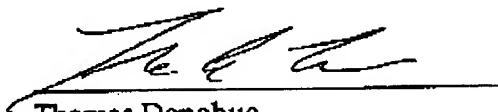
a trailer brake output, said trailer brake output controlled by said control element in response to said vehicle speed input and said vehicle brake pressure input; and

a diagnostic input from the towed trailer in communication with said control element, said diagnostic input verifying proper operation of the towed trailer;

wherein said control element includes logic adapted to:

increase a gain of said trailer brake output in response to an increase in said vehicle speed input.

Respectfully submitted,



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Dated: June 2, 2005